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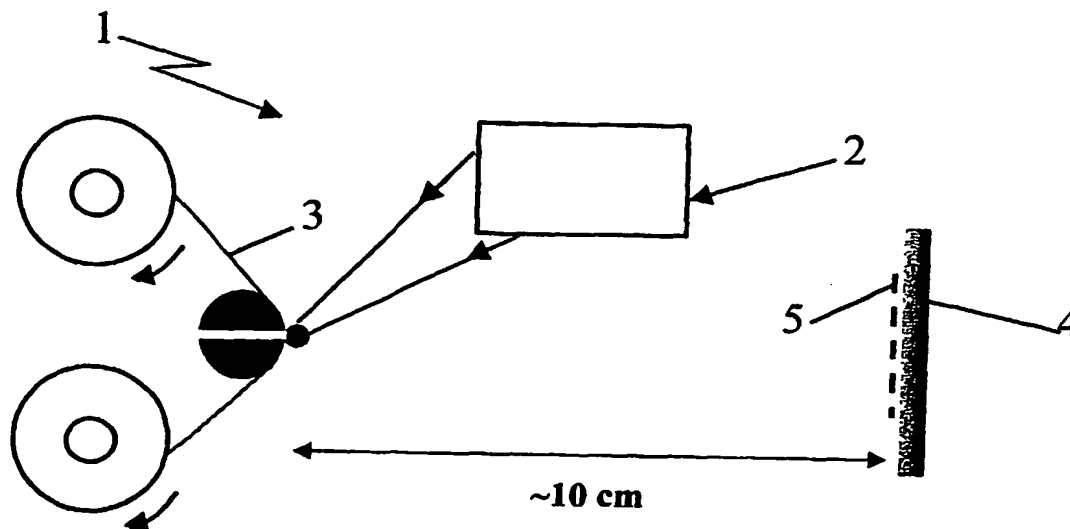
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(54) Title: A METHOD FOR DETECTION OF MICROMETRIC AND SUB-MICROMETRIC IMAGES BY MEANS OF IRRADIATION OF A MASK OR OF A BIOLOGICAL SPECIMEN WITH IONIZING RADIATION



(57) Abstract: Described herein is a method for detection of micrometric and sub-micrometric images with high resolution and high dynamics of contrast, and suited for enabling microradiography, x-ray microscopy and the production of coloured configurations in dielectric materials. The method consists of radiation of energy comprised between 20 and 2000 eV for irradiating a mask or a biological specimen and use of a detector consisting of LiF in the form of a crystal or a film. The power of the radiation released in the LiF detector during exposure is preferably $\geq 10 \text{ mW/cm}^2$.